

RC 445  
M4

Public Document

No. 112

FORTY-SECOND ANNUAL REPORT  
OF THE  
GRAFTON STATE HOSPITAL  
AT  
NORTH GRAFTON AND WORCESTER  
FOR THE  
YEAR ENDING NOVEMBER 30, 1919



SOCIAL SERVICE  
LIBRARY  
BOSTON

BOSTON  
WRIGHT & POTTER PRINTING CO., STATE PRINTERS  
32 DERNE STREET  
1920

PUBLICATION OF THIS DOCUMENT  
APPROVED BY THE  
SUPERVISOR OF ADMINISTRATION.

## C O N T E N T S .

---

	PAGE
REPORT OF TRUSTEES, . . . . .	7
REPORT OF SUPERINTENDENT, . . . . .	10
REPORT OF TREASURER, . . . . .	23
STATISTICS, . . . . .	31



## OFFICERS OF THE HOSPITAL.

---

### BOARD OF TRUSTEES.

WINSLOW P. BURHOE, <i>Chairman</i> ,	.	.	.	.	.	BOSTON.
FRANCIS J. PRESCOTT,	.	.	.	.	.	GRAFTON.
ERNEST L. ANDERSON,	.	.	.	.	.	WORCESTER.
FRANK B. HALL,	.	.	.	.	.	WORCESTER.
ENOS H. BIGELOW, M.D.,	.	.	.	.	.	FRAMINGHAM.
MARGARET A. CASHMAN, <i>Secretary</i> ,	.	.	.	.	.	NEWBURYPORT.
CHARLOTTE R. F. LADD,	.	.	.	.	.	STURBRIDGE.

---

### RESIDENT OFFICERS.

HIRAM L. HORSMAN, M.D.,	.	.	.	.	<i>Acting Superintendent.</i>
ARTHUR E. PATTRELL, M.D.,	.	.	.	.	<i>Senior Assistant Physician.</i>
GEORGE K. BUTTERFIELD, M.D.,	.	.	.	.	<i>Senior Assistant Physician.</i>
H. WILBUR SMITH, M.D.,	.	.	.	.	<i>Assistant Physician.</i>
MICHAEL J. O'MEARA, M.D.,	.	.	.	.	<i>Assistant Physician.</i>
MARY JOHNSON, M.D.,	.	.	.	.	<i>Woman Physician.</i>
JOHN McRAE,	.	.	.	.	<i>Steward.</i>

---

### CONSULTING SURGEON.

LEMUEL F. WOODWARD, M.D.,	.	.	.	.	WORCESTER.
---------------------------	---	---	---	---	------------

---

### DENTISTS.

ADELARD J. HARPIN, D.M.D.,	.	.	.	WORCESTER DEPARTMENT.
BURTON E. LORING, D.M.D.,	.	.	.	GRAFTON DEPARTMENT.



# The Commonwealth of Massachusetts

---

## TRUSTEES' REPORT.

---

*To His Excellency the Governor and the Honorable Council.*

The trustees of the Grafton State Hospital herewith submit the forty-second annual report, with the report of the acting superintendent and treasurer appended.

During the past two years the hospital has been without a superintendent, and its affairs and management have been carried on under the careful supervision of Dr. Hiram L. Horsman, who was appointed acting superintendent and treasurer by the trustees on Nov. 30, 1917. We earnestly hope that the State Commission on Mental Diseases and the trustees of the hospital may soon be able to find a man for superintendent who will be satisfactory to all concerned, and one whom your Honorable Council will be pleased to confirm.

The vacancy on the Board of Trustees created by the resignation of Mr. Roger Cutler was filled by the appointment of Dr. Enos H. Bigelow of Framingham.

As a result of a recent act of the Legislature, the Grafton State Hospital has at last become the institution which its name would indicate. In 1901 the sum of \$25,000 was appropriated for a farm colony for what was at that time the Worcester Insane Asylum. Five hundred acres of land were purchased for this purpose near North Grafton. Chapter 659 of the Acts of 1912 provided for the removal of the institution from the Summer Street location to the Grafton Colony, and appropriated \$400,000 for the construction of buildings at that place. The act requiring the removal from Worcester was repealed in 1916. The association of the Grafton State Hospital with the old building on Summer Street has been finally terminated by the following enactment of the Legislature at its last session.

## CHAPTER 74, GENERAL ACTS OF 1919.

## AN ACT TO MAKE THE WORCESTER DEPARTMENT OF THE GRAFTON STATE HOSPITAL A PART OF THE WORCESTER STATE HOSPITAL.

*Be it enacted, etc., as follows:*

SECTION 1. That portion of the land and buildings of the Grafton state hospital which is situated within the city of Worcester, is hereby separated from said hospital and removed from the control of the trustees thereof, and is made a part of the Worcester state hospital, subject to the authority of the trustees of the latter institution. The furniture and equipment of said buildings are hereby conveyed to the custody and for the use of the Worcester state hospital except such parts of the same as may be reserved by the commission on mental diseases for the use of the Grafton state hospital, which parts may be removed to the main department of said hospital at North Grafton and shall be in the custody of that institution. The rights to take water from, and all other rights of the Grafton state hospital in, Hermitage pond in Worcester, together with the pipe-line and right of way therefor from said pond to the land of said hospital, are hereby conveyed to the trustees of the Worcester state hospital, to have and to hold on the terms upon which they are now held by the Grafton state hospital, or the trustees thereof.

SECTION 2. This act shall take effect on the first day of December, nineteen hundred and nineteen. [Approved April 3, 1919.]

The coal trestle, for which an appropriation was granted in 1918, is nearly completed. Such a trestle has been needed for a long time, and the coal can now be delivered with a great saving of time, labor and money.

The employee question has been most discouraging throughout the year. It would seem, in order to secure the proper kind of help for this work, that wages should be paid to meet the competition outside and more comfortable quarters for living be given them.

We recommend that the following appropriations be granted by the Legislature of 1920:—

1. Chapel and assembly hall, . . . . .	\$135,000
2. Barn for 100 cows.	
3. Barn for 30 horses.	
4. Barn for 100 tons of hay.	
5. Barn for hay (Oaks Group), . . . . .	3,000
6. Piggery, . . . . .	4,000
7. Shed for farm tools and implements, . . . . .	4,000
8. Scales, 10-ton capacity, . . . . .	250
9. Sewerage connections, . . . . .	2,600

We earnestly hope that an appropriation will be granted this coming year for a chapel and assembly hall, — a most urgent need of the hospital, — as we are now compelled to hold religious services and entertainments in a ward building, which is entirely unsuitable for the purpose.

We wish to call attention again to the urgent need of making provision for an adequate and permanent water supply as soon as possible.

Miss Susie G. Warren, a very efficient clerk, who has long been in the employ of the hospital, was elected treasurer on Sept. 18, 1919. We desire to express our sincere appreciation of the efficient service and helpful co-operation of our acting superintendent, Dr. Horsman, during the difficult and trying period through which we have just passed, two of the most trying years in our history.

Respectfully submitted,

MARGARET A. CASHMAN, *Secretary.*

FRANK B. HALL.

CHARLOTTE R. F. LADD.

WINSLOW P. BURHOE, *Chairman.*

ERNEST L. ANDERSON.

FRANCIS PRESCOTT.

ENOS H. BIGELOW.

## SUPERINTENDENT'S REPORT.

---

*To the Trustees of the Grafton State Hospital.*

The forty-second annual report of the Grafton State Hospital is herewith submitted for the year ending Nov. 30, 1919.

### MOVEMENT OF POPULATION FOR THE YEAR ENDING SEPT. 30, 1919.

Patients on books Sept. 30, 1918, 954 male, 1,002 female, — total, 1,956. Number received during the year, 72 male, 87 female, — total, 159. Of these, 21 were first admissions, 13 male, 8 female; 31 were readmissions, 26 male, 5 female; 107 were transfers from other hospitals, 33 male, 74 female. Total number under treatment during the year, 2,115 (1,026 male, 1,089 female). Discharged during the year, 208 (112 male, 96 female); as recovered, 3 male; as improved, 30 (23 male, 7 female); as unimproved, 16 (8 male, 8 female); transferred to other institutions, 5 (3 male, 2 female); died, 154 (75 male, 79 female). Number of patients on books Sept. 30, 1919, 1,907 (914 male, 993 female). Average daily number of patients on books during the year, 1,957.70 (948.59 male, 1,009.11 female). Average daily number of patients actually in the hospital during the year, 1,831.77 (879.77 male, 952 female). Average daily number in family care, 16.93 (.35 male, 16.58 female). Average daily number on escape and visit, 76.92 (52.8 male, 24.12 female). Number of voluntary patients admitted during the year, 9 (6 male, 3 female). Number of temporary-care patients, none. Number of patients actually remaining in hospital Sept. 30, 1919, 1,826 (865 male, 961 female). Number of patients in family care Sept. 30, 1919, 12 (1 male, 11 female).

GENERAL HEALTH.

The general health of the hospital population has been remarkably good for the year. Only 5 sporadic cases of influenza have appeared, 1 case of mumps (employee) and 3 cases of whooping cough. We are glad to report that the usual large number of diarrhœa cases did not occur during the summer months. We had five sudden deaths during the year, which were turned over to the medical examiner for investigation, and the same were investigated by the representative from the Commission on Mental Diseases.

The following operations were performed by our consulting surgeon during the year: —

Amputation (toes),	1
Intestinal obstruction,	1
Tonsillectomies,	5
Dilatation and curettage,	1
Glands of neck,	1
Fatty tumor of back,	1
Cancer of lip,	1
Ventral fixation of uterus,	1
Growth from lower jaw (probably malignant),	1

REPAIRS AND IMPROVEMENTS.

The coal trestle, for which a special appropriation was made in 1918, is nearing completion. The concrete work will be finished within a few days. This work was considerably delayed on account of shortage of carpenters.

The trestle is constructed of concrete reinforced by steel, and, when completed with concrete floor, will make a pocket first class in every respect, and will fill a long-felt want at the institution. The trestle is 200 feet long with an extension of 50 feet on an embankment. Its height is 14 feet, and will furnish storage for about 5,000 tons of coal. The plans of the trestle were made by the R. D. Kimball Company, Boston, and approved by the Boston & Albany Railroad.

The recommendations of C. H. Tenney Company for the conservation of fuel have been carried out. The covering of the hot water and steam pipes has been completed. Two Coppel

blowers, one single and one double stage, have been installed at the Grafton Department. The boiler walls at Grafton have been covered, and those at the Worcester Department will be completed shortly. The precision instruments have arrived and are being installed. The smoke flues at both departments are being covered, and will be completed within a few days.

The above work has been delayed on account of strikes, which prevented the contractors completing their work before the end of the year.

The general painting of the wards that was started last year has been carried on as rapidly as our limited force of painters would permit. Pines A and B buildings have been painted throughout, and Pines D started. Besides the above, the south corridors and toilet sections of Elms A, the toilet sections in Oaks B and C, the several tin roofs, Maple cottage, the entrance to administration building, employees' club rooms, and the corridor and ironing room in the laundry building at Grafton have been painted.

At the Worcester Department the ceilings of the congregate dining room have been repaired by replacing the rusted metal and painting them throughout. Also metal ceilings in the toilets and spray rooms, wards 6 and 12, have been wholly replaced and the rooms painted; also the toilets on wards 5, 11, 12 and 17 have been repainted.

The road from the main highway to the Elms Group has been completed; also the space between this road and the officers' cottage and male nurses' home has been graded and made into a lawn, with a cinder walk with a rock foundation leading to the Elms Group, with branch walks leading to the entrances of the officers' cottage and male nurses' home; trees have been set bordering either side of the roadway; heretofore this space was rough and unsightly, being covered with decayed apple tree stumps and bowlders that required blasting to remove.

The grading and terracing about the Oaks Group, between Oaks C and D and the service building, that was started some time ago is nearly completed, and adds much to the appearance of this section of the group; also some terracing has been done behind the Elms Group.

A new concrete floor has been laid in the basement of Elms B, to which the tailor shop has been moved from the basement of Elms A, where the room was too small and poorly adapted to its needs. The room formerly occupied by the tailor has been added to the male industrial department.

#### SPECIAL MEDICAL WORK.

The following is the report of Dr. O. J. Raeder of the work done in the neurosyphilis clinic at the Worcester Department of this hospital: —

Dr. H. L. HORSMAN, *Acting Superintendent, Grafton State Hospital.*

I herewith submit the annual report of the neurosyphilis clinic of the Massachusetts Commission on Mental Diseases at the western branch, Summer Street, Worcester.

The neurosyphilis research of the Massachusetts Commission on Mental Diseases has been carried on systematically during the year. As before, cases suitable for treatment have been transferred either from the Psychopathic Hospital in Boston or other institutions.

The same general method as practiced last year has been applied again as the most satisfactory for routine work in a large number of cases. This consists of an intensive and prolonged treatment with arsphenamine (salvarsan), mercury and iodide of potash. The arsphenamine used during the greater part of the year was of the product supplied by the State chemist. It has given satisfactory results, and the fact that it is supplied gratis has made it a benefit to all who were in need of this effectual drug. The intravenous route has been commonly used as the most effectual.

There were 63 cases of neurosyphilis and other syphilis (1 case of secondary) treated. Of these, 28 cases were on treatment at the time of the last report, Dec. 1, 1918.

TABLE I. — *Cases treated.*

	1916-17.	1917-18.	1918-19.
Paresis, . . . . .	48	40	40
Cerebrospinal syphilis, . . . . .	11	6	7
Tabes dorsalis, . . . . .	3	5	5
Secondary syphilis, . . . . .	2	1	1
Other syphilis, . . . . .	—	5	10

In the above table the various forms of neurosyphilis coming under observation are enumerated. The paretic type was by far the most com-

mon, furnishing 63.3 per cent; the cerebrospinal type supplied 7 cases, or 11.1 per cent; of the tabetic type there were 5 cases, or 7.9 per cent. Other syphilis embodies mostly various nervous and mental states with syphilis in which, for the most part, it was difficult to determine the degree of cause for the mental disease or whether the syphilis was not simply concomitant. Most of these cases are epileptics with syphilis. Certainly all syphilis should be treated if there is any chance of improving the patient's condition thereby.

TABLE II. — *Treatments given.*

	1916-17.	1917-18.	1918-19.
Intravenous, . . . . .	763	1,070	1,276
Intraventricular, . . . . .	19	4	1
Subdural, . . . . .	37	—	—
Intraspinal, . . . . .	38	11	—
Intramuscular (mercury), . . . . .	—	411	456

In Table II the number of treatments given has been divided to show the methods of administration. The figures of the previous two years have been given for comparison.

TABLE III. — *Duration of Treatment.*

1 month or less, . . . . .	6
1 month to 6 months, . . . . .	16
6 to 9 months, . . . . .	7
9 to 12 months, . . . . .	5
1 year to 1½ years, . . . . .	9
1½ to 2 years, . . . . .	7
2 to 3 years, . . . . .	14

Here (Table III) is shown the duration of treatment of the cases under observation at present. It should be stated that during the course of these treatments periods of rest are given at definite intervals and the drugs are alternated.

TABLE IV. — *Number of Treatments.*

1 to 10 . . . . .	19
11 to 15, . . . . .	6
16 to 25, . . . . .	17
26 to 50, . . . . .	21
51 to 75, . . . . .	—
Total number of patients, . . . . .	63

TABLE V. — *Amounts of Arsphenamine given.*

1 gram or less,	.	.	.	.	.	.	.	.	.	.	5
1.1 to 10 grams,	.	.	.	.	.	.	.	.	.	.	43
10.1 to 20 grams,	.	.	.	.	.	.	.	.	.	.	14
20.1 to 30 grams,	.	.	.	.	.	.	.	.	.	.	—
30.1 to 40 grams,	.	.	.	.	.	.	.	.	.	.	—
Total number of patients,	.	.	.	.	.	.	.	.	.	.	62

TABLE VI. — *Amount of Mercury given.*

5 grains or less,	.	.	.	.	.	.	.	.	.	.	22
6 to 15 grains, .	.	.	.	.	.	.	.	.	.	.	27
16 to 25 grains,	.	.	.	.	.	.	.	.	.	.	6
26 to 30 grains,	.	.	.	.	.	.	.	.	.	.	—
Total number of patients,	.	.	.	.	.	.	.	.	.	.	55

The number of treatments and amounts of drugs administered are shown in Tables IV, V and VI. Mercury salicylate suspended in neutral oil was given in deep muscular injections in 1 grain dosage.

TABLE VII. — *Results of Treatment.*

	Number.	Per Cent.
Recovered (secondary lues), . . . . .	1	1.6
Improved, . . . . .	20	31.7
Stationary, . . . . .	31	49.2
Worse, . . . . .	5	7.9
Died, . . . . .	5	7.9
Unknown (eloped, etc.), . . . . .	1	1.6
Total number of patients, . . . . .	63	—

The result of treatment is shown in Table VII. Among the 31.7 per cent improved were several cases that showed most gratifying results. One case of the cerebrospinal type, who has been discharged to an out of State clinic, has recovered clinically, though the serology has not been entirely negativized.

Two cases of the paretic type have been discharged, both capable of self-support, one to the out-patient department of the Psychopathic Hospital in Boston, and the other eloped.

*Summary.*

Cases treated during the year, . . . . .	63
Cases showing noteworthy improvement (31.7 per cent), . . . . .	20
Cases held over from last year, . . . . .	28
New cases added during the year, . . . . .	35
Cases discharged improved, . . . . .	6
Case discharged recovered, . . . . .	1

A report of the work of the clinic was made by Dr. George K. Butterfield in a paper presented at the Massachusetts State Hospital Assistants' Meeting held at North Grafton October 9.

The undersigned included the work of this clinic in a paper on "Neurosyphilis" at the annual meeting of the American Medico-Psychological Association at Philadelphia.

The assistance and co-operation of Dr. Butterfield in the work of the clinic has been material. Thanks are due to Acting Superintendent Dr. H. L. Horsman and the staff for encouragement and interest shown.

Respectfully submitted,

O. J. RAEDER,

*Assistant Pathologist,*

*Massachusetts Commission on Mental Diseases.*

### PATHOLOGIST'S REPORT.

*To the Superintendent of the Grafton State Hospital.*

The pathological work of the Grafton State Hospital has been continued during the past year by the undersigned as assistant pathologist to the Commission on Mental Diseases. Assistance has been rendered to the laboratory by appointing from time to time technical aid for the care of tissues from autopsies and for the routine laboratory tests.

The autopsy service of the hospital was slightly greater than last year, during which time 78 complete examinations were made, 51 per cent of the deaths. Twenty-five post mortems were done in October, 1918, when the influenza epidemic was at its height, a remarkable achievement considering the many duties imposed on the staff at this time. The records have been typewritten and bound in volumes so that complete accounts of autopsies done are available since the pathological service to the Commission was instituted, July 1, 1914.

More than a score of pictures have been made of the more interesting brains, and the feeble-minded material has been reviewed, with especial attention to anomalies, in a paper read at the New England Society of Psychiatry at Medfield State Hospital, Sept. 19, 1919, by Dr. O. J. Raeder, also assistant pathologist to the Commission on Mental Diseases.

Of these 78 autopsies, two-thirds were under fifty years of age, and the

majority of the 78 died of pulmonary infections (pneumonia and tuberculosis), in fact 62 per cent died of pulmonary disease, tuberculosis occurring in 37 per cent.

There have been some especially valuable cases in this series besides the imbeciles and idiots; one was a man of thirty-two who had epileptic convulsions and on whom the diagnosis of brain tumor was confirmed at autopsy. This tumor was of great size and produced much intracranial pressure. Photographs have been made of this, but the most striking anomalies and pathological lesions have been in the imbecile group; for example, one shows developmental defect in the cerebellum, as a result of which the patient never walked freely, always had to be assisted. Another showed some compensatory changes in one cerebral hemisphere and its opposite cerebellar hemisphere dating from a cerebral poliomyelitis in childhood. Two cases have had local dilatations of the central canal in the spinal cord. The brain of one Armenian presented curiosity in the formation, which will be especially studied (proportion of height to length unusual).

It is again recommended that a resident pathologist would be of great advantage to the hospital, and that a well-equipped laboratory and mortuary be provided with proper cooling facilities.

A storeroom is invaluable so that the specimens can be readily accessible.

The experience in other institutions continues to show that each laboratory unit should have at least three persons on its staff, namely, a pathologist, technician and secretary.

The clinical staff has been co-operative in every way and under special difficulties due to a general unrest at this time.

MYRTLE M. CANAVAN.

#### DENTAL WORK.

This work has been done by Dr. A. J. Harpin at the Worcester Department and by Dr. Burton E. Loring at the Grafton Department.

They have devoted one-half day a week, and have been subject to call and advice when necessary. I recommend that at least one whole day a week should be given to this work.

#### STAFF CHANGES.

Dr. James L. McAuslan entered the service April 1, 1919, having had previous experience in the State hospital at Norwich, Conn., and Gardner State Colony.

### TRAINING SCHOOL.

The work in the training school has been carried on as usual under the direction of Miss P. J. Porteous, superintendent of nurses, until October 1, on which date she resigned to start a rest home for convalescents. We all regretted to have her leave the service, and wish her all possible success in her new venture. Since October 1 the school has been under the direction of Mrs. Ena Benson, who had charge of the school at the Worcester Department.

The graduating exercises were held Sept. 24, 1919, graduating eight nurses. The affiliation with the Bellevue and Allied Hospitals, New York, has been canceled, and at present the school is affiliated with the training school at the Boston City Hospital. Affiliation began Sept. 2, 1919. The school opened Sept. 30, 1919.

Number of seniors,	.	.	.	.	.	.	.	.	.	.	.	3
Seniors at Fordham,	.	.	.	.	.	.	.	.	.	.	.	2
Seniors at Boston City Hospital,	.	.	.	.	.	.	.	.	.	.	.	4
Number in intermediate class,	.	.	.	.	.	.	.	.	.	.	.	16
Number of juniors,	.	.	.	.	.	.	.	.	.	.	.	23

### EMPLOYEES.

The employee situation, while not quite as bad as a year ago, must be looked upon as serious, particularly in the nursing and domestic departments.

It is impossible to obtain and keep a sufficient number of nurses to man our wards properly. If some means could be provided whereby the nurses who graduate from our training school could be induced to stay with us as charge or graduate nurses, thus assuring proper ward supervision, it would help materially in the work. Only one of the number who graduated in September last is with us at present, the others have gone to more lucrative positions in other places.

The domestic department is always below quota.

In the farm department the teams have to remain in the barns at times on account of the shortage of men.

## FARM.

The farm yielded very good crops in spite of the wet season. There would have been an extra good yield of potatoes if they had not been struck with blight. It was estimated that crop would have yielded 6,000 bushels; however, we harvested about 3,500 bushels.

It was not possible to clear any great area of land owing to the fact that it was necessary to use our teams and farm help much of the time on the construction of the coal trestle.

The Valley Farm property, for which we had great hopes this year, was not in a suitable condition to be worked, on account of so much rain. It was not considered best to drain this thoroughly for fear it would draw too much water away from the wells that furnish water for the institution. After a permanent water supply is furnished for the hospital, and this section is properly drained, you may look for good crops from this part of the farm.

The plot of land of about 16 acres opposite the waiting station at the Oaks Group has been cleared of bushes and fenced, making this available for pasturage for the herd of cows at this group.

Bushes and small growth were also cut from an area of about 8 acres in the so-called Summit pasture, which later on will be more thoroughly cleared for tillable land.

## MISCELLANEOUS.

Religious services have been held weekly during the year.

Moving pictures and dances were given weekly during the fall, winter and spring months, besides other entertainments given by local talent.

Every patient was remembered at Christmas, and as many as could attended the exercises at the Christmas trees in the large day halls.

Fourth of July was celebrated by holding Field Day, at which appropriate sports and contests were held.

SPECIAL APPROPRIATIONS.

The following special appropriations were granted by the last Legislature: —

- 1. Fire protection, . . . . . \$6,000 00
- 2. Vegetable cellar, . . . . . 3,411 50

I recommend that the following special appropriations be requested for the year 1919-20: —

- 1. Chapel and assembly hall, . . . . . \$135,000 00

This is needed, inasmuch as we have no assembly place for chapel exercises, dances and entertainments. At present all gatherings are held in a day hall on the female side. This arrangement necessitates carrying the seats to and from the ward whenever a gathering is held.

- 2. Barn for 100 cows.
- 3. Barn for 30 horses.
- 4. Barn for 100 tons of hay.

The barns used at present are the original farm barns, needing constant repairs and inadequate for the needs of the hospital.

- 5. Barn for hay (Oaks Group), . . . . . 3,000 00

There is no place for storage of hay for this group other than in open sheds. This barn is needed to replace the one burned in 1917.

- 6. Piggery, . . . . . 4,000 00

A new and better arranged piggery is necessary, especially if the herd is to be increased in numbers, as is planned.

- 7. Shed for farm tools and implements, . . . . . 4,000 00

This is needed to properly house our farm tools.

- 8. Scales, 10-ton capacity, . . . . . 250 00

There are no large scales on which to weigh heavy loads or produce in bulk.

- 9. Sewerage connections: power house, carpenter shop and storehouse, . . . . . 2,600 00

If the sewerage of the above is to go into the general sewerage system it will have to be pumped.

## GENERAL NEEDS.

I would call your attention to the more general needs and repairs of the hospital. Nearly all of the buildings need painting, excepting those that have been painted during the past two years.

The heating arrangements in some of the ward buildings, especially the older ones, are inadequate to heat them properly.

The plumbing in the buildings first constructed needs general overhauling and repairing, and in many places it should be replaced and rearranged. On account of the composition of the water, leaks and breaks are almost daily occurrences, which keep our plumbers and steam fitters constantly busy, having no time for doing more extensive repairs and new work.

Arrangements should be made in Elms A and Oaks A whereby better bathing facilities for the patients could be had.

The ice house should be enlarged, the present one is too small to house sufficient ice to meet the demands of the hospital.

Cottages should be built for employees whereby desirable employees could have their families with them.

A house or quarters should be available for the steward as soon as possible, as such an officer should live on the premises.

A building to accommodate about 50 disturbed, noisy and destructive female patients is needed very much, as the present strong buildings are too large and not properly arranged for such patients. If 50 or 60 of this class could be taken from our present wards, the remaining patients could be better classified, more easily managed and the wards kept in better condition.

The need for an underground passage from the Elms and Pines Group to their respective service buildings, mentioned in last year's report, is urgent.

A greenhouse should be built for the purpose of starting early vegetables and furnishing plants and flowers for the wards and grounds; this is more urgent than formerly, as the above were furnished by the greenhouse at the Worcester Department which becomes part of the Worcester State Hospital at the close of this fiscal year.

There should be installed a large sterilizer, presumably in connection with the power house or laundry, whereby our mattresses and bedding generally, and clothing in bulk when necessary, could be properly sterilized.

By the following legislative enactment the Worcester Department of this hospital becomes part of the Worcester State Hospital Dec. 1, 1919.

CHAPTER 74, GENERAL ACTS OF 1919.

AN ACT TO MAKE THE WORCESTER DEPARTMENT OF THE GRAFTON STATE HOSPITAL A PART OF THE WORCESTER STATE HOSPITAL.

*Be it enacted, etc., as follows:*

SECTION 1. That portion of the land and buildings of the Grafton state hospital which is situated within the city of Worcester, is hereby separated from said hospital and removed from the control of the trustees thereof, and is made a part of the Worcester state hospital, subject to the authority of the trustees of the latter institution. The furniture and equipment of said buildings are hereby conveyed to the custody and for the use of the Worcester state hospital except such parts of the same as may be reserved by the commission on mental diseases for the use of the Grafton state hospital, which parts may be removed to the main department of said hospital at North Grafton and shall be in the custody of that institution. The rights to take water from, and all other rights of the Grafton state hospital in, Hermitage pond in Worcester, together with the pipe-line and right of way therefor from said pond to the land of said hospital, are hereby conveyed to the trustees of the Worcester state hospital, to have and to hold on the terms upon which they are now held by the Grafton state hospital, or the trustees thereof.

SECTION 2. This act shall take effect on the first day of December, nineteen hundred and nineteen. [Approved April 3, 1919.]

Respectfully submitted,

HIRAM L. HORSMAN,  
*Acting Superintendent.*



*Payments.*

To treasury of Commonwealth, institution receipts, . . . . \$22,768 24

## Maintenance appropriations: —

Balance November schedule, 1918, . . . . .	\$27,540 12	
Eleven months' schedules, 1919, . . . . .	531,352 09	
November advances, . . . . .	20,762 78	
Advances, account of October schedule not received, . . . . .	3,561 25	
		<hr/> 583,216 24

## Special appropriations: —

Approved schedules, . . . . .	32,277 20
Balance Nov. 30, 1919, . . . . .	20,675 97
	<hr/>
Total, . . . . .	\$658,937 65

## MAINTENANCE.

Appropriation, current year, . . . . .	\$674,700 00
Balance from previous year brought forward, . . . . .	5,073 79

Total, . . . . .	\$679,773 79
Expenses (as analyzed below), . . . . .	593,268 83

Balance reverting to treasury of Commonwealth, . . . . .	\$86,504 96
--	-------------

*Analysis of Expenses.*

## Personal services: —

Hiram L. Horsman, acting superintendent, . . . . .	\$2,490 00	
Medical, . . . . .	8,732 34	
Administration, . . . . .	12,543 63	
Kitchen and dining-room service, . . . . .	12,340 13	
Domestic, . . . . .	21,672 27	
Ward service (male), . . . . .	37,600 08	
Ward service (female), . . . . .	37,865 05	
Industrial and educational department, . . . . .	3,078 35	
Engineering department, . . . . .	28,848 20	
Repairs, . . . . .	17,960 73	
Farm, . . . . .	16,964 43	
Stable, garage and grounds, . . . . .	2,768 47	
		<hr/> \$202,863 68

## Religious instruction: —

Catholic, . . . . .	\$1,200 00	
Hebrew, . . . . .	300 00	
Protestant, . . . . .	670 63	
		<hr/> 2,170 63

## Travel, transportation and office expenses: —

Advertising, . . . . .	\$528 01
Automobile repairs and supplies, . . . . .	3,516 52
Postage, . . . . .	768 27
Printing and binding, . . . . .	703 95
Printing annual report, . . . . .	173 00
Stationery and office supplies, . . . . .	1,673 07

Amounts carried forward, . . . . .	\$7,362 82	\$205,034 31
------------------------------------	------------	--------------

*Amounts brought forward,* . . . . . \$7,362 82 \$205,034 31

Travel, transportation and office expenses — *Con.*

Telephone and telegraph, . . . . .	1,306 29	
Travel, . . . . .	1,093 75	
Freight, . . . . .	19 71	
		9,782 57

Food: —

Flour, . . . . .	\$24,135 00	
Cereals, rice, meal, etc., . . . . .	4,628 53	
Bread, crackers, etc., . . . . .	751 16	
Peas and beans (canned and dried), . . . . .	2,420 77	
Macaroni and spaghetti, . . . . .	365 17	
Potatoes, . . . . .	4,645 01	
Meat, . . . . .	41,591 05	
Fish (fresh, cured and canned), . . . . .	9,547 51	
Butter, . . . . .	5,845 87	
Butterine, etc., . . . . .	13,455 13	
Cheese, . . . . .	2,702 39	
Coffee, . . . . .	1,553 13	
Coffee substitutes, . . . . .	2,205 40	
Tea, . . . . .	1,592 55	
Cocoa, . . . . .	97 00	
Milk (whole), . . . . .	19,519 52	
Milk (condensed, evaporated, etc.), . . . . .	171 18	
Eggs (fresh), . . . . .	9,634 72	
Sugar (cane), . . . . .	4,995 87	
Sugar (maple, etc.), . . . . .	25 00	
Fruit (fresh), . . . . .	1,364 66	
Fruit (dried and preserved), . . . . .	5,150 87	
Lard and substitutes, . . . . .	2,376 30	
Molasses and syrups, . . . . .	887 78	
Vegetables (fresh), . . . . .	2,454 07	
Vegetables (canned and dried), . . . . .	242 72	
Seasonings and condiments, . . . . .	2,531 91	
Yeast, baking powder, etc., . . . . .	280 43	
Freight, . . . . .	247 17	
		165,417 87

Clothing and materials: —

Boots, shoes and rubbers, . . . . .	\$8,103 41	
Clothing (outer), . . . . .	11,730 13	
Clothing (under), . . . . .	6,138 94	
Dry goods for clothing, . . . . .	9,161 79	
Hats and caps, . . . . .	361 50	
Leather and shoe findings, . . . . .	657 18	
Machinery for manufacturing, . . . . .	144 90	
Socks and small wares, . . . . .	1,173 89	
Freight, . . . . .	145 76	
Material for industries, . . . . .	557 00	
		38,174 50

Furnishings and household supplies: —

Beds, bedding, etc., . . . . .	\$22,415 67
Carpets, rugs, etc., . . . . .	433 37

*Amounts carried forward,* . . . . . \$22,849 04 \$418,409 25

Amounts brought forward, . . . . . \$22,849 04 \$418,409 25

Furnishings and household supplies — *Con.*

Crockery, glassware, cutlery, etc., . . . . .	2,836 87	
Dry goods and small wares, . . . . .	574 26	
Electric lamps, . . . . .	1,035 11	
Fire hose and extinguishers, . . . . .	33 00	
Furniture, upholstery, etc., . . . . .	2,825 76	
Kitchen and household wares, . . . . .	13,075 66	
Laundry supplies and materials, . . . . .	3,017 34	
Lavatory supplies and disinfectants, . . . . .	1,084 99	
Machinery for manufacturing, . . . . .	81 27	
Table linen, paper napkins, towels, etc., . . . . .	1,549 03	
Freight, . . . . .	340 32	
Material for industries, . . . . .	87 12	
Repairing dumb-waiter, . . . . .	196 02	
		49,585 79

Medical and general care: —

Books, periodicals, etc., . . . . .	\$637 61	
Entertainments, games, etc., . . . . .	1,371 67	
Funeral expenses, . . . . .	625 10	
Ice and refrigeration, . . . . .	714 50	
Laboratory supplies and apparatus, . . . . .	325 18	
Medicines (supplies and apparatus), . . . . .	3,206 75	
Medical attendance (extra), . . . . .	989 07	
Patients boarded out, . . . . .	2,177 30	
Return of runaways, . . . . .	235 54	
Tobacco, pipes, matches, . . . . .	2,948 81	
Water, . . . . .	1,825 48	
Freight, . . . . .	44 72	
		15,101 73

Heat, light and power: —

Coal (bituminous), . . . . .	\$3,993 01	
Freight and cartage, . . . . .	4,180 74	
Coal (screenings), . . . . .	11,683 46	
Freight and cartage, . . . . .	14,562 22	
Coal (anthracite), . . . . .	2,685 71	
Freight and cartage, . . . . .	430 59	
Gas, . . . . .	46 11	
Oil, . . . . .	271 28	
Operating supplies for boilers and engines, . . . . .	841 37	
Freight, . . . . .	5 29	
Boiler inspection, . . . . .	45 00	
Stoves, . . . . .	39 15	
		38,783 93

Farm and stable: —

Bedding materials, . . . . .	\$1,322 21	
Blacksmithing and supplies, . . . . .	782 37	
Carriages, wagons and repairs, . . . . .	192 34	
Dairy equipment and supplies, . . . . .	28 03	
Fencing materials, . . . . .	171 87	
Fertilizers, . . . . .	2,082 74	

Amounts carried forward, . . . . . \$4,579 56 \$421,880 70

*Amounts brought forward,* . . . . . \$4,579 56 \$421,880 70

Farm and stable — *Con.*

Grain, etc., . . . . .	14,593 57	
Hay, . . . . .	6,044 89	
Harnesses and repairs, . . . . .	257 89	
Horses, . . . . .	550 00	
Cows, . . . . .	531 00	
Other live stock, . . . . .	45 00	
Rent, . . . . .	153 80	
Spraying materials, . . . . .	153 09	
Stable and barn supplies, . . . . .	83 13	
Tools, implements, machines, etc., . . . . .	2,102 38	
Trees, vines, seeds, etc., . . . . .	1,247 55	
Veterinary services, supplies, etc., . . . . .	289 88	
Freight, . . . . .	125 89	
Lime, . . . . .	117 60	
		30,875 23

Grounds: —

Fertilizers, . . . . .	\$2 94	
Tools, implements, machines, etc., . . . . .	33 56	
Trees, vines, shrubs, seeds, etc., . . . . .	9 41	
Freight, . . . . .	90	
		46 81

Repairs, ordinary: —

Cement, lime, crushed stone, etc., . . . . .	\$619 21	
Electrical work and supplies, . . . . .	1,164 18	
Hardware, iron, steel, etc., . . . . .	2,748 11	
Lumber, etc. (including finished products), . . . . .	1,197 88	
Paint, oil, glass, etc., . . . . .	4,964 26	
Plumbing and supplies, . . . . .	2,802 32	
Roofing and materials, . . . . .	206 45	
Steam fittings and supplies, . . . . .	2,561 34	
Tools, machines, etc., . . . . .	97 77	
Boilers, repairs, . . . . .	598 74	
Dynamos, repairs, . . . . .	91 50	
Engines, repairs, . . . . .	55 86	
Freight, . . . . .	116 69	
Removing chimney, . . . . .	300 00	
		17,524 31

Repairs and renewals: —

Improvements in heating system, Worcester Department, . . . . .	\$4,546 94	
Improvements in heating system, Grafton Department, . . . . .	7,634 52	
Relaying pipe line, . . . . .	3,584 87	
Window guards, Elms A, . . . . .	2,638 00	
Plumbing, Worcester Department, . . . . .	1,072 45	
Retubing two boilers, Grafton Department, . . . . .	2,155 00	
Covering smoke flues, . . . . .	1,310 00	
		22,941 78

Total expenses for maintenance, . . . . . \$593,268 83

## SPECIAL APPROPRIATIONS.

Balance Dec. 1, 1918, . . . . .	\$143,482 78
Appropriations for fiscal year, . . . . .	9,411 50
Total, . . . . .	\$152,894 28
Expended during the year, . . . . .	\$32,277 20
Reverting to treasury of Commonwealth, . . . . .	342 97
	<hr/> 32,620 17
Balance Nov. 30, 1919, . . . . .	\$120,274 11

## RESOURCES AND LIABILITIES.

*Resources.*

Cash on hand, . . . . .	\$20,675 97
Advances, account of October schedule, . . . . .	\$3,561 25
November cash vouchers (paid from advance money), account of maintenance, . . . . .	20,762 78
	<hr/> 24,324 03
Due from treasury of Commonwealth from available appropriation, account of November, 1919, schedule, . . . . .	16,916 74
	<hr/> \$61,916 74

*Liabilities.*

Schedule of October bills, . . . . .	\$3,561 25
Schedule of November bills, . . . . .	58,355 49
	<hr/> \$61,916 74

## PER CAPITA.

During the year the average number of inmates has been 1,847.79.  
 Total cost for maintenance, \$593,268.83.  
 Equal to a weekly per capita cost of \$6.1744.  
 Receipt from sales, \$5,222.17.  
 Equal to a weekly per capita of \$0.0543.  
 All other institution receipts, \$17,546.07.  
 Equal to a weekly per capita of \$0.1826.

Respectfully submitted,

HIRAM L. HORSMAN,  
*Acting Treasurer.*

Examined and found correct as compared with the records in the office of the Auditor of the Commonwealth.

ALONZO B. COOK,  
*Auditor.*

## INMATES' FUND.

---

Cash on hand Dec. 1, 1918, . . . . .	\$5,424 59
Received of inmates, . . . . .	2,352 18
Interest, Worcester Bank and Trust Company, . . . . .	53 48
Interest, Mechanics Savings Bank, . . . . .	100 10
	<hr/>
	\$7,930 35
 Cash refunded patients, . . . . .	 \$1,659 73
Paid to Massachusetts Commission on Mental Diseases, . . . . .	577 11
Interest paid to State Treasurer, Worcester Bank and Trust Company, from December, 1918, to November, 1919, . . . . .	53 48
Interest paid to State Treasurer, Mechanics Savings Bank, from July, 1918, to July, 1919, . . . . .	100 10
Balance, Worcester Bank and Trust Company, \$3,294.01; Mechanics Savings Bank, \$2,200; office, \$45.92, . . . . .	5,539 93
	<hr/>
	\$7,930 35

## VALUATION.

Nov. 30, 1919.

## REAL ESTATE.

Land (919 acres),	.	.	.	.	.	.	.	.	\$155,036 00
Buildings,	.	.	.	.	.	.	.	.	1,796,962 14
									\$1,951,998 14

## PERSONAL PROPERTY.

Travel, . . . . .	\$693	18
Food, . . . . .	17,527	39
Clothing, . . . . .	38,907	40
Furnishings, . . . . .	83,051	19
Medical and general care, . . . . .	1,950	10
Heat, light and power, . . . . .	36,757	22
Farm and stable, . . . . .	34,176	67
Repairs, . . . . .	19,266	92
	<hr/>	
	\$232,330	07

## SUMMARY.

Real estate, . . . . .	\$1,951,998	14
Personal property, . . . . .	232,330	07
	<hr/>	
	\$2,184,328	21

---

---

# STATISTICAL TABLES

AS ADOPTED BY AMERICAN MEDICO-PSYCHOLOGICAL  
ASSOCIATION

---

PRESCRIBED BY MASSACHUSETTS COMMISSION ON MENTAL DISEASES

---

---



STATISTICAL TABLES.

TABLE 1. — *General Information.*

1. Date of opening institution: Oct. 23, 1877.	
2. Type of institution: State.	
3. Hospital plant: —	
Real estate, including buildings, . . . . .	\$1,951,998 14
Personal property, . . . . .	233,347 82
Total, . . . . .	\$2,185,345 96

Total acreage, 919.  
Acreage under cultivation during year, 180.25.

4. Medical service: —	Men.	Women.	Total.
Acting superintendent, . . . . .	1	—	1
Assistant physicians, . . . . .	5	1	6
	6	1	7
5. Employees: —	Males.	Females.	Totals.
Graduate nurses, . . . . .	—	7	7
Other nurses and attendants, . . . . .	78	75	153
Social workers, . . . . .	—	—	—
All other employees, . . . . .	91	76	167
Total, . . . . .	169	158	327
	Men.	Women.	Total.
6. Percentage of patients employed during year, .	43	46	44.5

TABLE 2. — *Financial Statement.*

See treasurer's report for data requested under this table.

TABLE 3. — *Movement of Patient Population for the Year ending Sept. 30, 1919.*

	INSANE.		
	Males.	Females.	Totals.
1. Patients on books of institution Sept. 30, 1918, . . .	954	1,002	1,956
Admission during year: —			
(a) First admissions, . . . . .	13	8	21
(b) Readmissions, . . . . .	26	5	31
Total admissions, . . . . .	39	13	52
(c) Transfers from other institutions for the insane, .	33	74	107
2. Total received during year, . . . . .	72	87	159
3. Total under treatment during year, . . . . .	1,026	1,089	2,115
Discharged from books during year: —			
(a) As recovered, . . . . .	3	—	3
(b) As improved, . . . . .	23	7	30
(c) As unimproved, . . . . .	8	8	16
(d) As not insane, . . . . .	—	—	—
(e) Transferred to other institutions for the insane, .	3	2	5
(f) Died during year, . . . . .	75	79	154
4. Total discharges from books during year, . . . . .	112	96	208
5. Patients remaining on books of institution Sept. 30, 1919,	914	993	1,907
<i>Supplementary Data.</i>			
6a. Average daily number of patients on books during year,	948.59	1,009.11	1,957.70
6b. Average daily number of patients actually in institution during year.	879.77	952.00	1,831.77
7a. Average daily number of patients in family care, . . .	.35	16.58	16.93
7b. Average daily number of patients on visit and escape, .	52.80	24.12	76.92
8. Number of voluntary patients admitted during year, .	6	3	9
9. Number of temporary-care cases admitted during year, .	—	—	—
10. Number of patients actually remaining in institution Sept. 30, 1919.	865	961	1,826
State, . . . . .	835	920	1,755
Private, . . . . .	5	3	8
Reimbursing, . . . . .	25	38	63
11. Number of patients in family care Sept. 30, 1919: —			
State, . . . . .	1	11	12
Private, . . . . .	—	—	—
12. Number of different persons within the year, . . . .	1,025	1,089	2,114
13. Number of different persons admitted from the community.	39	13	52
14. Number of different persons dismissed exclusive of transfer.	109	93	202
15. Number of non-insane patients or inmates in institution at end of institution year.	—	—	—

TABLE 4. — *Nativity of First Admissions and of Parents of First Admissions.*

NATIVITY.	PATIENTS.			PARENTS OF MALE PATIENTS.			PARENTS OF FEMALE PATIENTS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
United States, . . . . .	10	7	17	5	4	9	2	4	6
Ireland, . . . . .	-	1	1	3	4	7	1	1	2
Italy, . . . . .	2	-	2	2	2	4	-	-	-
Canada, . . . . .	1	-	1	3	3	6	2	1	3
Russia, . . . . .	-	-	-	-	-	-	1	1	2
England, . . . . .	-	-	-	-	-	-	1	-	1
Germany, . . . . .	-	-	-	-	-	-	1	1	2
Total, . . . . .	13	8	21	13	13	26	8	8	16

TABLE 5. — *Citizenship of First Admissions.*

	Males.	Females.	Totals.
Citizens by birth, . . . . .	10	7	17
Citizens by naturalization, . . . . .	-	-	-
Aliens, . . . . .	3	1	4
Total, . . . . .	13	8	21

TABLE 6. — *Psychoses of First Admissions.*

PSYCHOSES.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, total, . . . . .	. . . . .	. . . . .	. . . . .	3	3	6
Deterioration, . . . . .	3	2	5			
Clouded, . . . . .	-	1	1			
With other brain or nervous diseases, . . . . .	. . . . .	. . . . .	. . . . .	1	-	1
Tabes, . . . . .	1	-	1			
With mental deficiency, . . . . .	. . . . .	. . . . .	. . . . .	-	4	4
Not insane, . . . . .	. . . . .	. . . . .	. . . . .	9	-	9
Mental deficiency without psychosis, . . . . .	8	-	8			
Tabes without psychosis, . . . . .	1	-	1			
With cerebral syphilis, . . . . .	. . . . .	. . . . .	. . . . .	-	1	1
Total, . . . . .	. . . . .	. . . . .	. . . . .	13	8	21

TABLE 7. — Race of First Admissions classified with Reference to Psychoses.

RACE.	TOTAL.			PSYCHOSES.											
	Males.	Females.	Totals.	EPILEPTIC.			WITH OTHER BRAIN OR NERVOUS DISEASES.			WITH MENTAL DEFICIENCY.			WITH CEREBRAL SYPHILIS.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
English, . . . . .	4	2	6	-	1	1	1	-	1	-	1	1	-	-	3
French, . . . . .	1	2	3	-	-	-	-	-	-	-	2	2	-	-	1
African, . . . . .	-	1	1	-	1	1	-	-	-	-	-	-	-	-	-
German, . . . . .	-	1	1	-	1	1	-	-	-	-	-	-	-	-	-
Irish, . . . . .	6	1	7	1	-	1	-	-	-	-	-	1	-	-	5
Italian, . . . . .	2	-	2	2	-	2	-	-	-	-	-	-	-	-	-
Polish, . . . . .	-	1	1	-	-	-	-	-	-	-	1	1	-	-	-
Total, . . . . .	13	8	21	3	3	6	1	-	1	-	4	4	-	1	9

TABLE 8. — Age of First Admissions classified with Reference to Principal Psychoses.

PSYCHOSES.	TOTAL.			YEARS.																							
	Males.	Females.	Totals.	UNDER 15.			15-20.			20-25.			25-30.			30-35.			35-40.			40-45.			45-50.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, . . . . .	3	3	6	-	1	1	-	1	1	2	1	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-	
With other brain or nervous diseases, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
With mental deficiency, . . . . .	-	4	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
With cerebral syphilis, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	
Not insane, . . . . .	9	-	9	-	-	-	4	-	4	1	-	1	2	-	2	1	-	-	-	-	-	-	1	-	-	1	
Total, . . . . .	13	8	21	-	1	1	4	4	8	2	1	3	3	-	3	1	1	2	2	-	-	1	1	-	-	1	

TABLE 9. — Degree of Education of First Admissions classified with Reference to Psychoses.

PSYCHOSES.	TOTAL.			NONE.			READS ONLY.			READS AND WRITES.			COMMON SCHOOL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, . . . . .	3	3	6	2	-	2	-	-	-	1	2	3	-	1	1
With other brain or nervous diseases, . . . . .	1	-	1	-	-	-	-	-	-	1	-	1	-	-	-
With mental deficiency, . . . . .	-	4	4	-	2	2	-	-	-	-	2	2	-	-	-
With cerebral syphilis, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Not insane, . . . . .	9	-	9	4	-	4	1	-	1	3	-	3	1	-	1
Total, . . . . .	13	8	21	6	2	8	1	-	1	5	4	9	1	2	3

TABLE 10. — *Environment of First Admissions classified with Reference to Principal Psychoses.*

PSYCHOSES.	TOTAL.			URBAN.			RURAL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, . . . . .	3	3	6	3	3	6	-	-	-
With other brain or nervous diseases,	1	-	1	1	-	1	-	-	-
With mental deficiency, . . . .	-	4	4	-	4	4	-	-	-
With cerebral syphilis, . . . .	-	1	1	-	1	1	-	-	-
Not insane, . . . . .	9	-	9	9	-	9	-	-	-
Total, . . . . .	13	8	21	13	8	21	-	-	-

TABLE 11. — *Economic Condition of First Admissions classified with Reference to Principal Psychoses.*

PSYCHOSES.	TOTAL.			DEPENDENT.			MARGINAL.			COMFORTABLE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, . . . . .	3	3	6	1	1	2	2	2	4	-	-	-
With other brain or nervous diseases.	1	-	1	-	-	-	1	-	1	-	-	-
With mental deficiency, . . . .	-	4	4	-	4	4	-	-	-	-	-	-
With cerebral syphilis, . . . .	-	1	1	-	-	-	-	-	-	-	1	1
Not insane, . . . . .	9	-	9	7	-	7	1	-	1	1	-	1
Total, . . . . .	13	8	21	8	5	13	4	2	6	1	1	2

TABLE 12. — *Use of Alcohol by First Admissions classified with Reference to Principal Psychoses.*

PSYCHOSES.	TOTAL.			ABSTINENT.			TEMPERATE.			INTEMPERATE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, . . . . .	3	3	6	1	3	4	1	-	1	1	-	1
With other brain or nervous diseases.	1	-	1	1	-	1	-	-	-	-	-	-
With mental deficiency, .	-	4	4	-	4	4	-	-	-	-	-	-
With cerebral syphilis, .	-	1	1	-	1	1	-	-	-	-	-	-
Not insane, . . . . .	9	-	9	6	-	6	2	-	2	1	-	1
Total, . . . . .	13	8	21	8	8	16	3	-	3	2	-	2

TABLE 13. — *Marital Condition of First Admissions classified with Reference to Principal Psychoses.*

PSYCHOSES.	TOTAL.			Sfngle.			MARRIED.			WIDOWED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, . . . . .	3	3	6	2	3	5	1	-	1	-	-	-
With other brain or nervous diseases.	1	-	1	-	-	-	1	-	1	-	-	-
With mental deficiency, .	-	4	4	-	4	4	-	-	-	-	-	-
With cerebral syphilis, .	-	1	1	-	-	-	-	1	1	-	-	-
Not insane, . . . . .	9	-	9	9	-	9	-	-	-	-	-	-
Total, . . . . .	13	8	21	11	7	18	2	1	3	-	-	-

TABLE 14. — *Psychoses of Readmissions.*

PSYCHOSES.						
	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, total, . . . . .	. . .	. . .	. . .	8	3	11
Deterioration, . . . . .	6	3	9			
Clouded, . . . . .	2	—	2			
General paralysis, . . . . .	. . .	. . .	. . .	12	1	13
With constitutional psychopathic inferiority, . . . . .	. . .	. . .	. . .	1	—	1
With other brain or nervous diseases, . . . . .	. . .	. . .	. . .	3	—	3
Tabes, . . . . .	3	—	3			
With cerebral syphilis, . . . . .	. . .	. . .	. . .	2	1	3
Total, . . . . .	. . .	. . .	. . .	26	5	31

TABLE 15. — *Discharges of Patients classified with Reference to Principal Psychoses and Condition on Discharge.*

PSYCHOSES.	TOTAL.			RECOVERED.			IMPROVED.			UNIMPROVED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Alcoholic, . . . . .	7	1	8	3	—	3	3	—	3	1	1	2
Dementia præcox, . . . . .	9	6	15	—	—	—	7	3	10	2	3	5
General paralysis, . . . . .	5	1	6	—	—	—	4	1	5	1	—	1
Epileptic, . . . . .	4	2	6	—	—	—	3	1	4	1	1	2
Psychoneuroses and neu- roses.	—	1	1	—	—	—	—	1	1	—	—	—
With cerebral syphilis, . . . . .	1	1	2	—	—	—	1	—	1	—	1	1
Manic-depressive, . . . . .	3	—	3	—	—	—	2	—	2	1	—	1
Paranoia or paranoic condi- tions.	1	—	1	—	—	—	1	—	1	—	—	—
With other brain or nervous diseases.	1	—	1	—	—	—	—	—	—	1	—	1
Not insane, . . . . .	3	3	6	—	—	—	2	1	3	1	2	3
Total, . . . . .	34	15	49	3	—	3	23	7	30	8	8	16







<i>Diseases of the Respiratory System.</i>													
Pulmonary tuberculosis, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Lobar pneumonia, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Bronchopneumonia, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Asthma, . . . . .	-	-	1	-	-	-	-	-	-	-	-	-	-
Pulmonary gangrene, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Chronic bronchitis, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Diseases of the Digestive System.</i>													
Enteritis, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Carcinoma of rectum, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Strangulated hernia with ulceration and cellulitis, . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Fibrous peritonitis from ruptured periappendicial, . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxemia from fecal impaction, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Carcinoma of stomach with ulceration and peritonitis, . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Diarrhoea and enteritis, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Gummata of liver, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Enteritis, acute, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Diseases of the Genitourinary System.</i>													
Purulent cystitis with ascending pyelonephrosis, . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Prostatic hypertrophy with hydronephrosis, . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyelocystitis, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Prostatic hypertrophy with massive hemorrhage into bladder, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Carcinoma of uterus and hydronephrosis, . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Total, . . . . .	-	1	1	2	-	2	3	5	8	1	4	5	1

TABLE 17. — Age of Patients at Time of Death classified with Reference to Principal Psychoses.

PSYCHOSES.	TOTAL.			YEARS.																							
	Males.	Females.	Totals.	15-20.			20-25.			25-30.			30-35.			35-40.			40-45.			45-50.					
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.			
Alcoholic, . . . . .	10	4	14	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	2	-	1	1	-	1	-	2
Dementia præcox, . . . . .	26	48	74	-	-	-	-	1	1	2	1	3	7	8	15	3	6	9	6	5	11	1	7	8	-	7	15
Epileptic, . . . . .	6	9	15	-	-	-	1	2	3	-	-	-	2	3	5	1	1	2	1	-	1	-	-	-	-	-	2
General paralysis, . . . . .	15	4	19	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	4	4	8	3	-	3	-	6	10
Manic-depressive, . . . . .	2	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2
With other brain or nervous diseases, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
With Huntington's chorea, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2
With cerebral arteriosclerosis, . . . . .	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
With mental deficiency, . . . . .	3	5	8	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	2	2	-	2	-	-	-	2
With cerebral syphilis, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2
Senile, . . . . .	1	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Involutional melancholia, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Not insane, . . . . .	8	2	10	1	-	1	3	-	3	2	-	2	-	1	1	1	-	1	-	-	-	-	-	-	-	-	2
Total, . . . . .	75	79	154	1	-	1	4	3	7	4	2	6	10	13	23	8	7	15	12	12	24	6	10	16	-	-	2



TABLE 18. — Total Duration of Hospital Life of Patients dying in Hospital classified according to Psychoses.

PSYCHOSES.	TOTAL.			MONTHS.									YEARS.											
	Males.	Females.	Totals.	LESS THAN 1.			1-3.			4-7.			8-12.			1-2.			3-4.			5-10.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.			
Alcoholic, . . . . .	10	4	14	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	-	3	1	4
Dementia præcox, . . . . .	26	48	74	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4	6	5	11	6	15	21
Epileptic, . . . . .	6	9	15	-	-	-	-	-	-	-	1	1	1	1	1	2	-	2	1	1	2	1	2	3
General paralysis, . . . . .	15	4	19	-	-	-	3	-	3	1	-	1	1	2	3	6	2	8	3	-	3	1	-	1
Manic-depressive, . . . . .	2	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
With other brain or nervous diseases, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
With Huntington's chorea, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
With cerebral arteriosclerosis, . . . . .	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1
With mental deficiency, . . . . .	3	5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
With cerebral syphilis, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
Senile, . . . . .	1	4	5	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	-
Involutional melancholia, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Not insane, . . . . .	8	2	10	-	-	-	-	-	-	1	-	-	-	-	-	2	1	3	3	1	4	1	-	1
Total, . . . . .	75	79	154	-	-	-	3	-	3	3	1	4	1	3	4	16	5	21	14	8	22	14	21	35



TABLE 19. — *Family-care Department.*

	Males.	Females.	Totals.
Remaining Sept. 30, 1918, . . . . .	1	20	21
Admitted within the year: —			
From institution, . . . . .	1	2	3
From escape, nominally, . . . . .	—	—	—
From visit, nominally, . . . . .	—	—	—
Whole number of cases within the year, . . . . .	2	22	24
Dismissed within the year, . . . . .	1	11	12
Returned to institution, . . . . .	1	10	11
Died, . . . . .	—	1	1
Discharged, . . . . .	—	—	—
Escaped, . . . . .	—	—	—
On visit, . . . . .	—	—	—
Remaining Sept. 30, 1919, . . . . .	1	11	12
Supported by State, . . . . .	1	10	11
Private, . . . . .	—	—	—
Self-supporting, . . . . .	—	1	1
Number of different persons within the year, . . . . .	1	22	23
Number of different persons admitted, . . . . .	—	11	11
Number of different persons dismissed, . . . . .	1	11	12
Daily average number, . . . . .	.35	16.58	16.93
State, . . . . .	.35	16.58	16.93
Private, . . . . .	—	—	—
Self-supporting, . . . . .	—	1.80	1.80







